

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Maclura pomifera*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	1,3,6,7-TETRAHYDROXYXANTHONE	Heart Wood	--	917		
1	1,3,6,7-TETRAHYDROXYXANTHONE	Wood	--	--		Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
4	6-DEOXYJACAREUBIN	Bark	--	--		
4	6-DEOXYJACAREUBIN	Wood	--	--		Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
2	ALPINUMISOFLAVONE	Tissue Culture	--	--		
3	ALVAXANTHONE	Root Bark	600	14200		
1	AMYRIN	Fruit	--	9000		Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
101	APIGENIN	Fruit	--	5		
101	APIGENIN	Tissue Culture	--	--		
3	AROMADENDRIN	Tissue Culture	--	--		
3	AROMADENDRIN	Heart Wood	--	--		
3	AROMADENDRIN	Bark	--	857		
112	ASCORBIC-ACID	Fruit	30	150	-0.2751624565642925	Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	ASTRAGALIN	Fruit	--	3200		
47	BETA-SITOSTEROL	Tissue Culture	--	--		
47	BETA-SITOSTEROL	Leaf	--	--		
47	BETA-SITOSTEROL	Root	--	--		
47	BETA-SITOSTEROL	Fruit	--	80	-0.6891305552196143	
1	D-GLUCOSE	Fruit	--	--		
3	DIHYDROQUERCETIN	Wood	--	--		Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
15	FIBER	Fruit	--	160000	0.17291047495919168	Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
8	FRUCTOSE	Shoot	--	--		
7	GLUCOSE	Shoot	--	--		
8	INOSITOL	Shoot	--	--		
75	KAEMPFEROL	Bark	--	29		
75	KAEMPFEROL	Fruit	--	10000	1.7320451833851958	
75	KAEMPFEROL	Wood	--	--		Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
1	KAEMPFEROL-7-GLUCOSIDE	Fruit	--	--		Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	LIGNIN	Wood	--	412200	1.089026839260062	Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
27	LINOLEIC-ACID	Fruit	--	--		
21	LUPEOL	Root Bark	--	--		
21	LUPEOL	Plant	--	--		
21	LUPEOL	Fruit	137	2300		
1	MACLURIN	Fruit	--	--		Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
1	MACLURIN	Wood	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
15	MORIN	Wood	--	--		
15	MORIN	Heart Wood	--	500		
15	MORIN	Bark	--	1000		
15	MORIN	Tissue Culture	--	--		
6	MYRISTIC-ACID	Fruit	--	--		
56	NARINGENIN	Tissue Culture	--	--		
1	NORATHYRIOL	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
18	OLEIC-ACID	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	OXYRESVERATROL	Heart Wood	--	--		
1	OXYRESVERATROL	Wood	--	--		
1	OXYRESVERATROL	Bark	--	5714		
13	PALMITIC-ACID	Fruit	--	--		
24	PECTIN	Fruit	--	460400	4.835907587345186	Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
3	POMIFERIN	Fruit	25	19850		
176	QUERCETIN	Fruit	270	520	2.0037988794180372	
176	QUERCETIN	Bark	--	14		
176	QUERCETIN	Root	360	1130		
176	QUERCETIN	Wood	--	--		Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
17	RESORCINOL	Wood	--	--		Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
17	RESORCINOL	Bark	--	21		
68	RESVERATROL	Heart Wood	--	--		
87	RUTIN	Wood	--	--		Smith, J. L. and Perino, J. V. 1981. Osage Orange (<i>Maclura pomifera</i>): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	SILICIC-ACID	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
12	STIGMASTEROL	Leaf	--	--		
14	SUCROSE	Shoot	--	--		
35	TANNIN	Wood	90000	100000	1.2399802396022128	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
6	UVAOL	Leaf	--	--		
4	WARANGALONE	Tissue Culture	--	--		
4	WARANGALONE	Fruit	--	--		
2	WIGHTEONE	Tissue Culture	--	--		